## CLAIMS

- 1. A polishing pad comprising a fiber including organic fiber and a matrix resin holding the fiber, wherein at least the organic fiber is exposed on the work material-side surface thereof.
- 2. A polishing pad comprising a fiber including organic fiber and a matrix resin holding the fiber, wherein at least the organic fiber is exposed on the work material-side surface after dressing treatment.
- 3. The polishing pad according to Claim 1 or 2, wherein the matrix resin contains at least one thermoplastic resin.
  - 4. The polishing pad according to any one of Claims 1 to 3, wherein the matrix resin is a semicrystalline thermoplastic resin.
- 5. The polishing pad according to any one of Claims 1 to 4, wherein an elastomer is dispersed in the matrix resin.
  - 6. The polishing pad according to Claim 5, wherein the elastomer has a glass transition point of 0°C or less.
- 7. The polishing pad according to any one of Claims 1 to 20 6, wherein the fiber is an aromatic polyamide.
  - 8. The polishing pad according to any one of Claims 1 to 7. wherein the polishing pad contains an inorganic fiber in an amount of 1 to 50 wt %.
- 9. The polishing pad according to any one of Claims 1 to 25 8, wherein the organic fiber has a diameter of 1 mm or less.
  - 10. The polishing pad according to any one of Claims 1 to9. wherein the organic fiber has a length of 1 cm or less.
    - 11. The polishing pad according to any one of Claims 1 to

- 10, wherein polishing particles are held by the organic fiber exposed on the work material-side surface.
- 12. The polishing pad according to any one of Claims 1 to 11, wherein the maximum length of the exposed organic fiber 1s 0.1 mm or less.

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- 13. The polishing pad according to Claim 12, wherein the exposed organic fiber is a polyester fiber.
- 14. The polishing pad according to Claim 12 or 13, wherein a chopped polyester fiber is dispersed in the matrix resin.
- 15. The polishing pad according to Claim 12 or 13, wherein a polyester nonwoven fabric is laminated in the matrix resin.
  - 16. The polishing pad according to any one of Claims 1, 2 to 4, 7, and 9 to 11 that is useful for optical detection of the polishing end point during polishing of the work material surface, wherein the polishing pad contains a substantially non-foammatrix resin containing an organic fiber in an amount of 1 to 20 wt %, has the functions of transporting and retaining polishing slurry particles, and allows transmission of a light having a wavelength in the range of 190 to 3,500 nm.
- 20 17. The polishing pad according to any one of Claims 1, 2 to 4, 7, and 9 to 11 that is useful for optical detection of the polishing end point during polishing of the work material surface, wherein the polishing pad contains a region transmitting a light having a wavelength in the range of 190 to 3,500 nm that is made of a substantially non-foam matrix resin containing an organic fiber in an amount of 1 to 20 wt % and has the functions of transporting and retaining polishing slurry particles.
  - 18. The polishing pad according to Claim 16 or 17, wherein

the organic fiber is an aramide fiber.

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- 19. A method for producing a polishing pad for use as attached to a polishing table for flattening a work material's polishing plane, comprising a step of obtaining a mixture of a fiber including organic fiber and a matrix composition containing a thermoplastic resin by blending, a step of pelletizing or tabletizing the mixture, and a step of molding the pellet or tablet into a plate or a sheet shape by extrusion or injection molding.
- 20. A method for producing a polishing pad for use as attached to a polishing table for flattening a work material's polishing plane, comprising a step of impregnating a fibrous base material containing organic fiber with a matrix resin composition to form a fibrous resin-impregnated sheet-shaped base material, and a step of laminating fibrous sheet-shaped base materials including the fibrous resin-impregnated sheet-shaped base material and molding the laminate with heating and pressure.
- 21. The method for producing a polishing pad according to Claim 19 or 20, further including a step of exposing the fiber on the surface.
- 22. A polishing method for polishing a work material's polishing plane, comprising polishing a work material pressing the polishing plane of the work material to the organic fiber-exposed face of the polishing pad according to any one of Claims 1 to 18, and sliding the work material and the pad relatively while supplying a polishing slurry between the work material's polishing plane and the polishing pad.
  - 23. The polishing method for polishing a work material's polishing plane according to Claim 22, wherein the work material's

polishing plane is a laminate of a conductor layer as well as a copper layer formed on an insulation layer having a dielectric constant of 2.7 or less on which wiring and trenches are formed.

24. A polishing method for detecting the polishing end point optically by using the polishing pad according to any one of claims 16 to 18.

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